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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,708	02/08/2002	Wolfram Drescher	A34941	3251
21003	7590 12/14/2004		EXAMINER	
BAKER & BOTTS			NGO, CHUONG D	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
			2124	.
			DATE MAILED: 12/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary						
		10/071,708	DRESCHER, WOLFRAM			
	omec Action Gummary	Examiner	Art Unit			
<u> </u>	The MAILING DATE of this communication ap	Chuong D Ngo	2124			
Period fo		pears on the cover sneet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status			•			
1)⊠	Responsive to communication(s) filed on 28 F	ebruary 2002.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) ⊠ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 6-11,13-15 and 21 is/are allowed. 6) ⊠ Claim(s) 1-5,12 and 16-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 February 2002</u> is/are: a)□ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	k(s)					
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office						

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DETAILED ACTION

1. Claims 1-5, 12 and 16-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, lines 9-10, the recitation "after all XOR connections are traversed a result E" is indefinite as to what it means. Further, "2n-2", line 7, should be - 2n-1 --.

Appropriate correction is required.

As per claim 12, line 1, the recitation "a finite field multiplier according to claim 5" is indefinite. It should be according to claim 6.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto et al. (4,918,638).

Matsumoto et al. discloses in figures 1,5 and 7 a multiplication of first (P) and second (Q) elements of a Galois field GF 2ⁿ. The multiplication includes forming in an addition part (11) an intermediate result (R) of bit width 2n-1, and processing the intermediate result Z in a reduction part (12) by modulo dividing by a polynomial (K) to produce a result (S) as claimed.

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It is noted that Matsumoto et al. does not specifically disclose first and second input registers as claimed. However, since such input registers for loading input data to a processing device are well-know in the art. A person of ordinary skill in the art would have found it obvious to

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provide Matsumoto et al. with input registers as claimed in order to maintain the states of the

input signals during processing and thus to reduce errors.

4. Claims 6-11 and 13-15 and 21 are allowed.

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuong D Ngo whose telephone number is (571) 272-3731.

The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2124

12/08/2004